Customer No.: 31561

Docket No.: 11612-US-PA

Application No.: 10/709,589

REMARKS

This is a full and timely response to the outstanding non-final Office action

electronically delivered on April 22, 2008. The comments made by the Office have

been carefully reviewed.

Present Status of the Application

The title of invention is objected to because the brackets at the beginning and the

end of the title should be removed as instructed by the Office.

Claims 1-10 stand rejected under 35 U.S.C. Section 103(a) as being asserted

unpatentable over Lee et al. (USPAP 2006/0208983 A1; hereinafter "Lee") in view of

Matsueda (USPAP 2002/0149556 A1; hereinafter "Matsueda").

After carefully considering the remarks set forth in this Office action and the cited

references, Applicant have amended the title of invention as per the Office's instruction.

Claims 1 and 7 have also been amended by respectively incorporating the features in

claims 3-5 and 8-10 thereinto and with reference to FIG. 3 of the present invention, and

claims 3-5 and 8-10 are correspondingly canceled. The specification is also revised to

be in line with the amendments made to the claims. It is respectfully submitted that all

the amendments made herein are supported by Applicant's disclosure, and therefore no

new matter is introduced.

Upon entry of the proposed amendments, Applicant respectfully guards against the

prior art rejection by submitting at least the following observations, and reconsideration

and allowance of the application and presently pending claims 1-2 and 6-7 are most

courteously requested.

Claim Rejections Under 35 U.S.C. Section 103(a)

Claims 1-10 stand rejected under 35 U.S.C. Section 103(a) as being unpatentable

over Lee in view of Matsueda.

With respect to independent claims 1 and 7 of the present invention, the Office

has conceded that the Lee reference is silent as to disclosing the feature of "a N+M bit

data gamma voltage generating circuit, coupled to the N+M bit data driving circuit for

receiving the N+M bit video data and providing the voltages in every step according to

the values found in a gamma color correction table, wherein, M is a natural number",

while the Office has still asserted that Matsueda teaches said feature in FIGs. 1 and 5 and

paragraph [0052] of Matsueda's specification, and the Office holds that it would have

been allegedly obvious to one of ordinary skill in the art at the time of the invention to

modify the circuit as assertedly shown in Lee by using the N+M bit data gamma voltage

generating circuit as assertedly shown in Matsueda so that the bit number for the gamma

voltage generating circuit matches the bit number of the data received by the circuit for

the benefit that every data value is represented by a unique voltage level. Applicant

respectfully disagrees.

As depicted in Applicant's FIG. 3, the present invention is directed to a color

correcting circuit that is coupled to a video source and a display panel and comprises a

video look-up circuit coupled to the video source, a N+M bit data driving circuit coupled

to the video look-up circuit for receiving and outputting the N+M bit video data, and a

N+M bit data gamma voltage generating circuit coupled to the N+M bit data driving

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circuit for receiving the N+M bit video data and providing the voltages in every step

according to the color of the N+M bit video data and the values found in a gamma

color correction table, so that each of the three colors including red, green, and blue has

an independent gamma correction curve to improve performance of each color.

By contrast, in paragraph [0052] of Matsueda, it reads, "the n-bit image signal 16 is

converted to the (n+m)-bit image signal 17 by the <u>sequential-g-correction ROM 15</u>

and is input to the data driver section 2. How to create a g-correction table to be stored

in the g-correction ROM will be described below. The transmission ratio of the liquid

crystal display apparatus is measured, and a chart indicating the dependency of the

transmission ratio on the input voltage is made with the transmission ratio being assigned

to the vertical axis and the input voltage being assigned to the horizontal axis. Then, on

the horizontal axis indicating the input voltage, 2^{M+N} voltages which can be output

from the (n+m)-bit D/A converter are plotted." Namely, according to the teaching

of Matsueda, the ROM 15 is referred to as a sequential-g-correction ROM, and the D/A

converter merely outputs 2M+N voltages. Besides, with reference to FIG. 5 of

Matsueda, a plurality of grayscale level values of the driving voltages are corresponding

to only a single gamma curve, while voltages are provided based on the data range of

red, green, blue as indicated in the gamma correction curves (the color red has an

independent gamma correction curve, the color green has an independent gamma

correction curve, and the color blue has an independent gamma correction curve after

the correction) according to the present invention. Thereby, the N+M bit data gamma

voltage generating circuit outputs the corrected video data to the N+M bit data driving

circuit.

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In light of the above discussions, neither Lee nor Matsueda teaches at least the

features of "wherein the N+M bit video data comprises N+M bit video data for a color

red, green, or blue" and "a N+M bit data gamma voltage generating circuit, coupled to

the N+M bit data driving circuit for receiving the N+M bit video data and providing the

voltages in every step according to the color of the N+M bit video data and the values

found in a gamma color correction table" set forth in claims 1 and 7 of the instant

application. As a result, the combination of Lee in view of Matsueda fails to establish a

prima facie case of obviousness, inasmuch as at least said features of the present

invention are neither expressly taught nor inherently suggested by the prior art of record,

taken alone or in combination, rendering claims 1 and 7 of the subject application

non-obvious. The rejection of claims 1 and 7 should accordingly be withdrawn.

As a matter of law, the obviousness rejection of claims 2 and 6 depending upon the

allowable claim 1 should be successfully controverted because these dependent claims

contain all the non-obvious features incorporated in their independent claim 1.

Withdrawal of the rejections under 35 U.S.C. Section 103(a) is accordingly

requested in all sincerity.

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CONCLUSION

In view of the foregoing, it is believed that all pending claims are in proper condition for allowance. If the Examiner believes that a conference would be of value in expediting the prosecution of this application, he is cordially invited to telephone the undersigned counsel to arrange for such a conference.

Date:

-Pa

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Respectfully submitted,

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